N° 19,335 A.D. 1899

Date of Application, 26th Sept., 1899

Complete Specification Left, 21st Dec., 1899—Accepted, 10th Mar., 1900

PROVISIONAL SPECIFICATION.

Improvements in Saddles, Seats and like supports.

We, JOSEPH JOHN HARRIS, Professor of Music, and EDWIN TOFT, Pianoforte Manufacturer, both of 75, Gloucester Road, Brighton, do hereby declare the nature of this invention to be as follows:—

This invention consists of improvements in saddles seats or supports for human or other bodies, the object being to provide means by which saddles, seats or supports for the human or other bodies may be rendered comfortable and healthy, owing to the prevention of undue vibration under varying circumstances, and also providing a means of ventilation. For the purposes of illustration I will now describe the principle of my invention. For example, in the case of a riding saddle, I provide a series of open air chambers, channels or passages which are interposed between the required surface, such as the back of the horse and the surface of the saddle, next the horse, or the body of the rider and the flaps of the saddle. These air chambers, channels or passages may be formed of any suitable material such as india rubber, and have the required configuration, and are secured in the desired position by any convenient and well known means, such as sewing or cement. If desired these air chambers, channels or passages may be secured between two suitable pieces of material which may as a whole form a plate or packing to be interposed between the desired surface or support and the body or object which is to repose or rest thereon.

For medical purposes such as for use in hospitals for different diseases, it will be seen that this invention can be adapted to what are known as water-proof sheets and appliances used for different diseases, in which this supporting and ventilating principle would be of service, and suitable perforations may be provided in the upper or lower surface between which the air chambers, channels or passages are carried for hygienic purposes. This arrangement would be of special utility for use in treatment of juvenile cases. Of course it will be readily understood that the same principle may be applied to the seats of chairs, and especially in the case of railway vehicles or others in which a hard wooden seat is employed.

Dated this 26th day of September 1899.

E. EATON,
Agent for Applicant.

COMPLETE SPECIFICATION.

Improvements in Saddles, Seats and like supports.

We, JOSEPH JOHN HARRIS, Professor of Music, and EDWIN TOFT, Pianoforte Manufacturer, both of 75, Gloucester Road, Brighton, do hereby declare the

nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention consists of improvements in saddles seats or supports for human or other bodies, the object being to provide means by which saddles, seats or supports for the human or other bodies may be rendered comfortable and healthy, owing to the prevention of undue vibration under varying circumstances and also providing a means of ventilation. For the purposes of illustration we will now describe the principle of our invention. For example, in the case of a riding saddle, we provide a series of air chambers, channels or passages which are interposed between the required surface, such as the back of the horse and the surface of the saddle next the horse or the body of the rider, and the flaps of the saddle. These air chambers, channels or passages may be formed of any suitable material and have the required configuration, and are secured in the desired position by any convenient and well known means, such as sewing or cement. If desired these air chambers, channels or passages may be secured between two suitable pieces of material which may as a whole form a plate or packing to be interposed between the desired surface or support and the body or object which is to repose or rest thereon.

For medical purposes such as for use in hospitals for different diseases, it will be seen that this invention can be adapted to what are known as water-proof sheets and appliances used for different diseases, in which this supporting and ventilating principle would be of service, and suitable perforations may be provided in the upper or lower surface between which the air chambers, channels or passages are carried for hygienic purposes. This arrangement would be of special utility for use in treatment of juvenile cases as water or liquids would be drained from the body. Of course it will be readily understood that the same principle may be applied to the seats of chairs, and especially in the case of railway or other vehicles, in which a hard wooden seat is employed.

For purposes of illustration we will now refer to the annexed drawings in which:—

Figure 1 is a plan view of a saddle fitted with our invention.

Figure 2 cross section through line *x y* in Figure 1.

Figure 3 plan view of modified arrangement.

Figure 4 cross section through Figure 3.

Referring to Figures 1 and 2, the saddle *a* is provided at suitable parts thereof with the ventilating arrangement as shewn. This consists, for instance, in the case of a riding saddle, of a series of air chambers, channels or passages *b* which are interposed between the required surface, such as the back of the horse and the surface *h* of the saddle. These air chambers, channels or passages *b* may be formed of any suitable material having the required configuration and are secured in the desired position by any convenient and well known means such as sewing or cement. These air chambers, channels or passages are covered by a piece of suitable material *c*. If desired we may sometimes secure the air chambers, channels or passages *b* between two suitable pieces of material *d* and *g* as shewn in Figures 3 and 4, and this compound sheet may be interposed between suitable parts of the saddle and horse or rider and saddle, and any other place such as between the panels and saddle for purpose of ventilation.

For medical purposes, such as for use in hospitals for different diseases, we provide a compound sheet consisting of air chambers, channels or passages *b* which are secured between two suitable pieces of material *d* and *g*, and suitable perforations as indicated by the dotted lines *e* may be provided in the upper and lower or both surfaces between which the air chambers, channels or passages are carried for hygienic purposes, this arrangement being of special utility in the treatment of juvenile cases as water or liquids would be drained from the body. The air chambers, channels or passages we find it convenient to form of rubber, such as in the form of corrugations or tubes, which may be continuous or split

and arranged in the required design having open ends. The employment of this form of our invention as shewn in Figures 3 and 4, may be of special utility in the cases of railway vehicles or others in which an uncovered wooden seat is employed.

Having now particularly described & ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. In saddles, seats or supports for human or other bodies, the employment of a series of air chambers, channels or passages interposed between the supporting surfaces and the body to be supported substantially as described and illustrated herein and for the purpose set forth.

2. In saddles, the combination therewith of a series of air chambers, channels or passages, substantially as described and illustrated herein and for the purpose set forth.

3. In means for supporting the human body for the purpose of reducing shock or jar, and providing ventilation, a series of air chambers, channels or passages arranged between and secured to two bases formed of suitable material, substantially as described and illustrated herein and for the purpose set forth.

Dated this 18th day of December 1899.

E. EATON,
Agent for Applicant

Redhill: Printed for Her Majesty's Stationery Office, by Malcomson & Co., Ltd.—1900.

Fig:1.

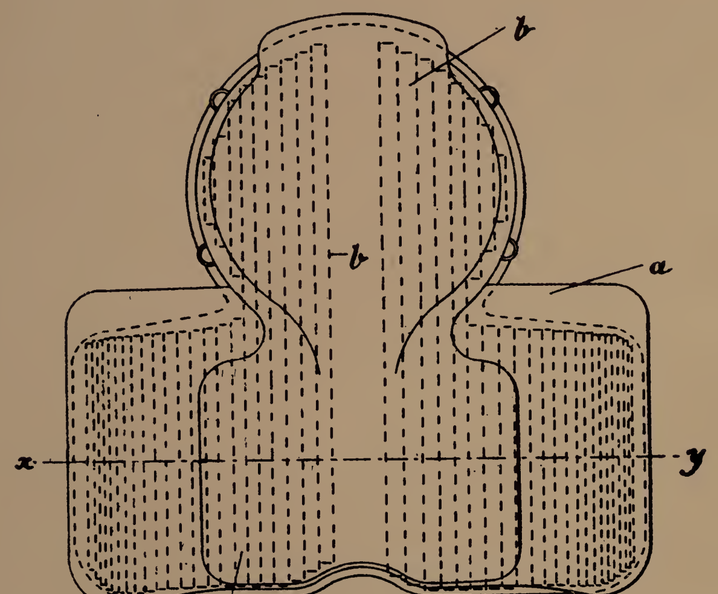


Fig:2.

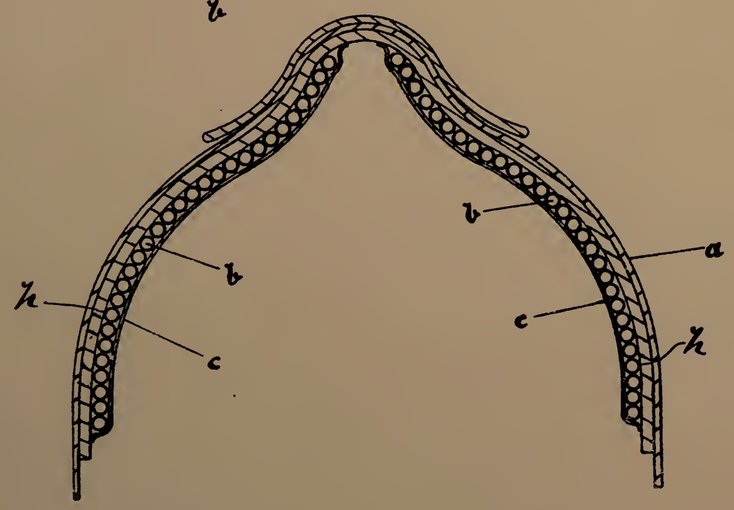


Fig:3.

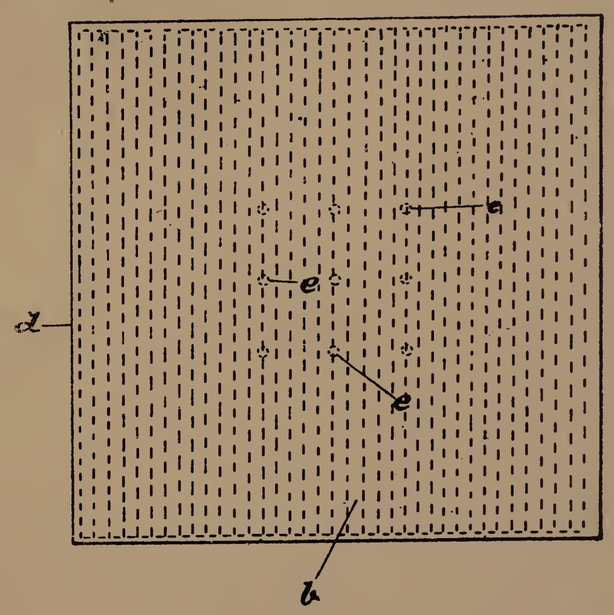
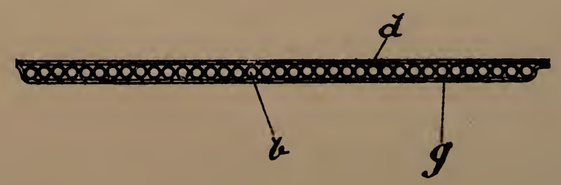


Fig:4



[This Drawing is a reproduction of the Original on a reduced scale.]

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